









ADL Collaboration





Co-work Suggestion

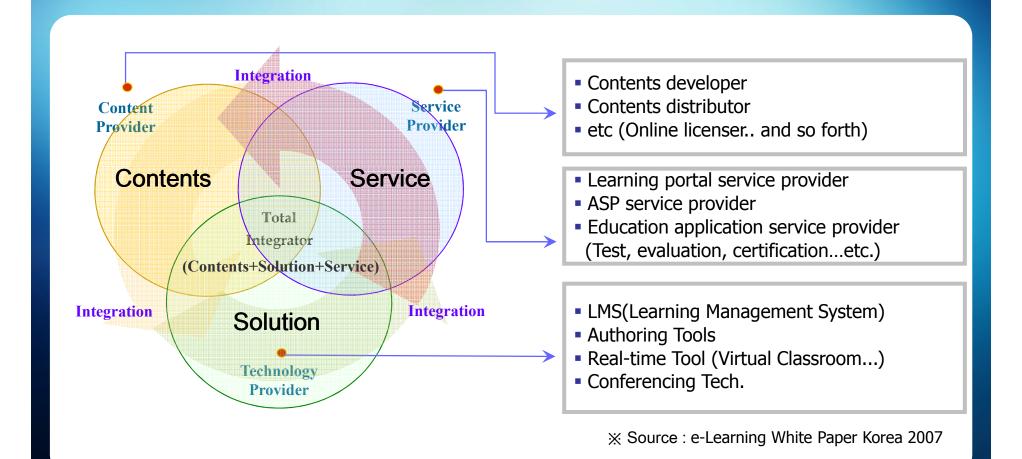








Integration of business is the trend of e-Learning industry in Korea.





In Korea, the market of e-Learning is gradually growing up now.

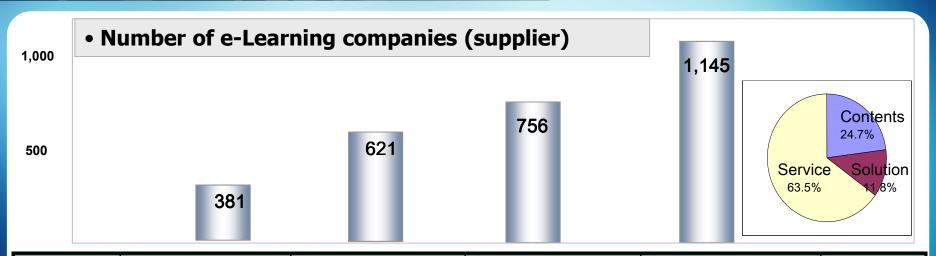


	2005		2006		2007		2008		2007/2008 Growth
	sales	(%)	sales	(%)	sales	(%)	sales	(%)	Rate (%)
Contents	336	22.9	389	24.1	406	23.5	432	23.1	6.6
Solution	244	16.6	239	14.8	218	12.6	221	11.9	1.5
Service	889	60.5	989	61.1	1102	63.9	1216	65.0	10.3
Total	1,470	100.0	1,617	100.0	1,727	100.0	1,870	100.0	8.3

Source : Survey on the e-Learning industry in Korea 2008



The number of e-Learning companies has been increasing.



	2005		2006		2007		2008		2007/2008 Growth
	Number	(%)	Number	(%)	Number	(%)	Number	(%)	Rate (%)
Contents	126	33.1	167	26.9	201	26.6	283	24.7	40.8
Solution	74	19.4	92	14.8	94	12.4	135	11.8	43.6
Service	181	47.5	362	58.3	461	61.0	727	63.5	57.7
SUM	381	100.	621	100.	756	100.	1,145	100.	51.5

Source : Survey on the e-Learning industry in Korea 2008



Market Demand

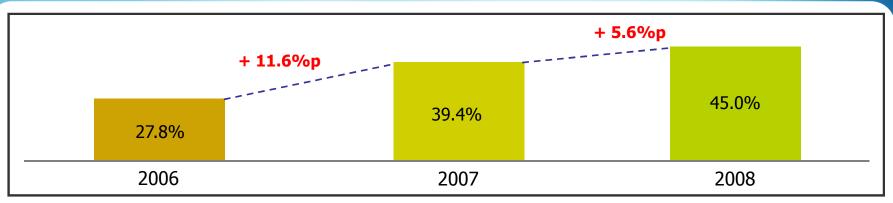
(Unit: 1 million US\$, %)

	200	5	2006		2007		2008		2007/2008 Growth
	Market	(%)	Market	(%)	Market	(%)	Market	(%)	Rate (%)
K-12, Lifelong (Individuals)	671	46.2	697	43.2	735	42.6	816	43.7	11.1
Industry Training (Enterprises)	668	46.0	752	46.6	759	44.0	812	43.6	6.9
Educational Institutes	18	1.3	26	1.6	69	4.0	70	3.8	1.8
Gov. & Public	94	6.5	137	8.5	163	9.5	167	8.9	2.4
SUM	1,452	100.0	1,613	100.0	1,727	100.0	1,866	100.0	8.1

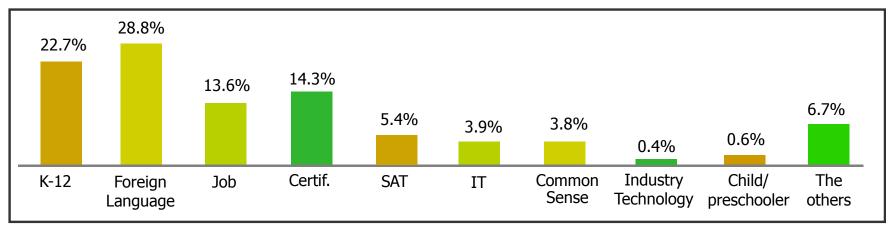
 $\frak{\%}$ Source : Survey on the e-Learning industry in Korea 2008



Users (Individuals)



[Ratio of individual using e-Learning]



[e-Learning course on demand]

 $\frak{\%}$ Source : Survey on the e-Learning industry in Korea 2008



Government Authorities

- Approved cyber universities
- Cyber high schools, **Cyber home-learning system**

Unemployment insurance

On the job training by e-learning

refunds for e-learning courses

Ministry of Education, Science & **Technology**

7

Ministry of Labor

MCST **Ministry of** Culture, Sports & **Tourism**



Ministry of Public Administration & Security

Ministry of Knowledge Economy

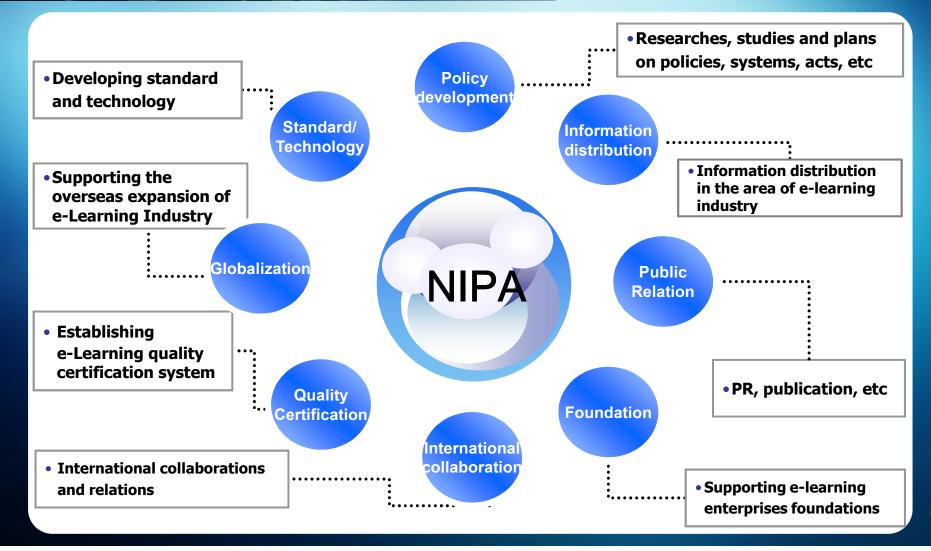
- Government initiative in e-learning area
- e-learning Industry **Development Act**
- Developing standardization & technology
- Promotion activities by NIPA

Set-up cyber training guideline for the public service

Developing e-learning content related culture



Role of NIPA (previously KIEC)







Collaboration Goal

Promoting Korean e-Learning Industry

e-Learning Standard Development

SCORM Certification

ADLR&D

HRD on SCORM

Extension of SCORM In Korea

Conference & Expo

ADL Document & Software localization

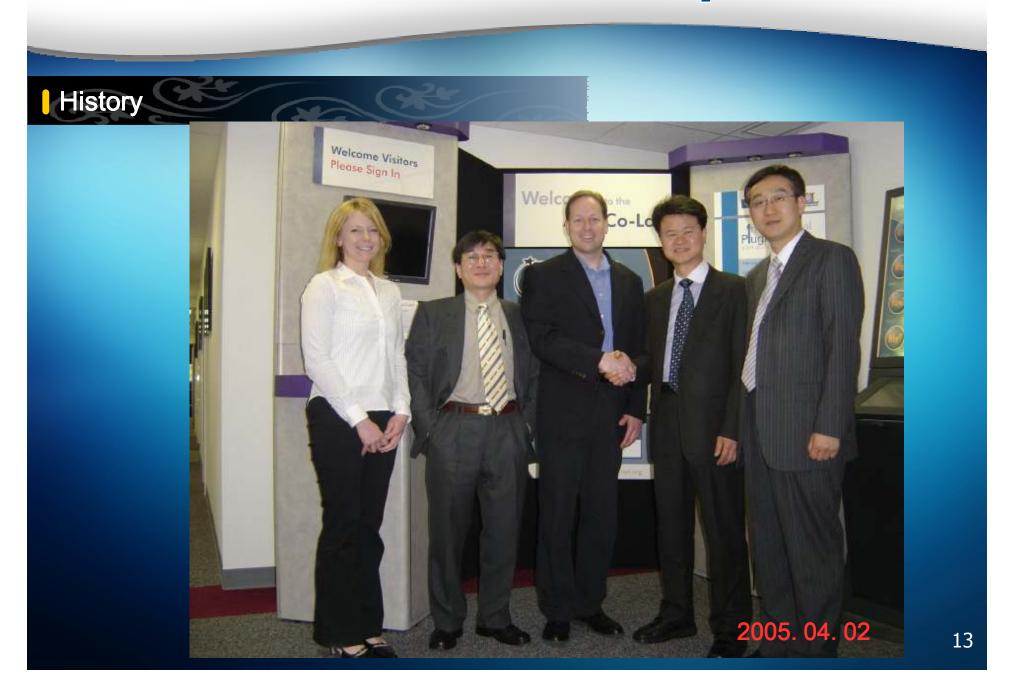
Mirror Site

Exchanging
Experts &
Information











History

Memorandum of Understanding

Between

The Alexandria Advanced Distributed Learning (ADL) Co-Lab
Of The Department of Defense
Of The United States of America

And

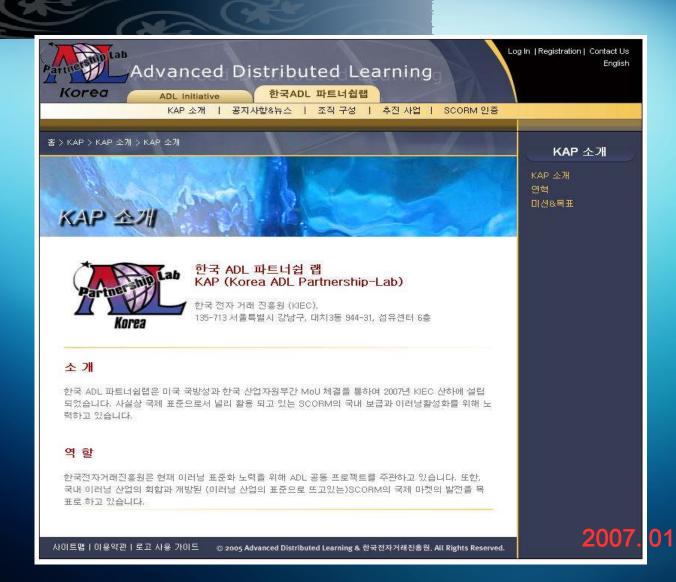
The Korea Institute for Electronic Commerce
Of The Ministry of Commerce, Industry and Energy
Of The Republic of Korea

Concerning

Establishment of a Candidate Korean Advanced Distributed Learning
Initiative Partnership Laboratory
2005. 04.



History





History - Key Elements of the MoU

- (1) <u>Joint or cooperative programs and projects</u> of mutual benefit
- (2) Organizing and participating in <u>conferences</u>, symposia, courses, workshops, exhibitions and other joint meetings of mutual interest
- (3) <u>SCORM certification tests and adopter registration</u>, conducted <u>only</u> <u>by KIEC</u>
- (4) Exchange of technical data and information through establishing and managing Korean ADL Partnership Lab mirror site
- (5) Operation of joint education programs to raise competency in standardization, conformity assessment and research and development
- (5) Localization of ADL documents and software
- (6) Sharing <u>ADL research and development</u> findings



Events for ADL in Korea

2008 ADL International Workshop

Mar. 14. 2008, COEX



Time	Subject							
05:00-00:30	B							
09:30710:00	Keynote Speach 1: ADL and e-Learning standardization Paul Jesukiewicz, Deputy director of Advanced Distributed Learning (USA)							
10:00=10:30	Opening Ceremony Chun-Seok Kim, President of KIEC Dae-Joon Hwang, President of KERIS							
10:30=11:00	Keynote Speech 2: Closing the Gap Between Theory and Practice inand Standards forin Learning Rob Abel, C.E.D of IMS Global Learning Consortium (USA)							
11:00=11:30	Keynate Sp	beech 3: Future of inte Bruce Peoples, Chai	ernational standard for rman of SC36 (USA)	e-Learning				
11:30=12:00	•	peech 4: e-Learning S Duk Hoon Kwak, Cha rof. of Korea National	airman of Korea SC36					
120071300		Lui	neh					
Tracks	Session I	Session II	Session III	Session M				
	Digital Textbook development policy in Korea Woo Hong Jun, Director Ministry of Education & HRD (Korea)	e-Learning standard policy in Canada Jake Knoppers, Senior Vice President Infoman Inc. (Canada)	SCORM applications showcase: Strategic Applications of Learning Technology Standards Avron Barr, Director for Strategic Planning ADL (USA)	Priorities for the future of SCORM Tyde Richards LETSI (USA)				
1300*1500	Digital Textbooks and Online Learning Content in Australia Jon Mason, Director InterCog Pty Ltd (Australia)	m-Learning Trends in Korea Jin Gon Shon, Prof. Korea National Open University (Korea)	SCDRM applications showcase: Enterprise— wide Learning Strategies and Lessons learned from their implementation I Michael Parmentier, Principal Booz Allen Hamilton (USA)	Priorities for the future of SCORM SCORM & Learning in the mainstream Allyn Radford, Managing Director Learnilities Pty Ltd (Australia)				
	Demonstration of the function of the digital textbook Digital Text Consortium 1 Sang Bin Ahn, Senior Manager SKC&C (Korea)	The music digital textbook for the elementary schools in South Korea: Functions, and toots Digital Text Consortium 2 Hyung Kook Park KT Infra Laboratory (Korea)	SCORM applications showcase: Enterprise- wide Learning Strategies and Lessons learned from their implementation II Clark Christensen, Associate Booz Allen Hamilton (USA)	Priorities for the future of SCDRM: Rethinking the role of the reference model Ellen Wagner, Director Adobe Systems, Inc. (USA)				
	e-Learning Market Issues in UK Mike Collett, Vice President Schemeta Ltd. (UK)	Case Study: Educational Information Search Service using Ontology Jae Hyuk Cha & Byoung Chol Chang Hanyang University (Korea)	SCORM applications showcase: Credit Bank-based Lifelong education service & SCORM application Beong Hwan Ha, Vice President Cybervil (Korea)	Priorities for the future of SCORM: Potential of e-Learning using SCORM in Korea Ju Hyung Lee, CEO LearningWise Consulting (Korea)				



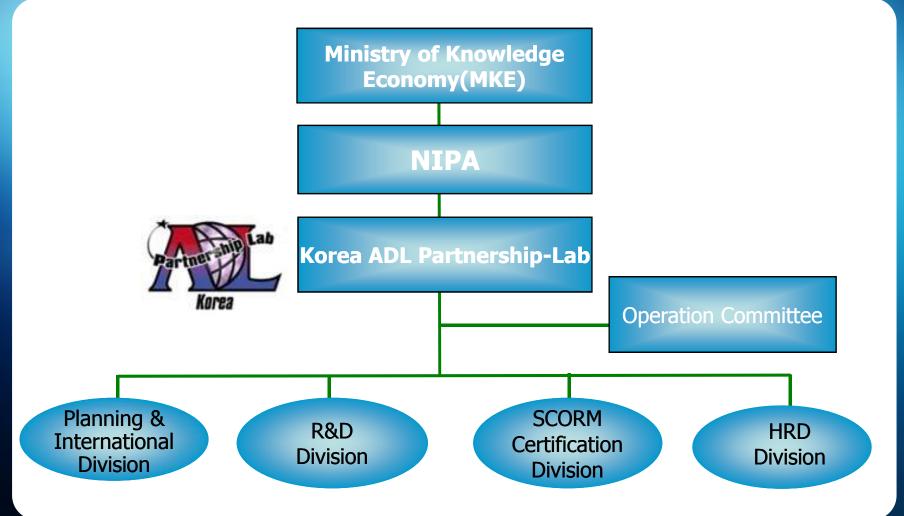
Operating ADL Mirror Site



- Public Relations
- Providing information on ADL & SCORM
- Introducing Co-Lab collaboration Activities
- Motivating to use SCORM
- Opening resources from Co-Lab Activities
- www.adlkorea.or.kr



Korea ADL Partnership Lab - Structure





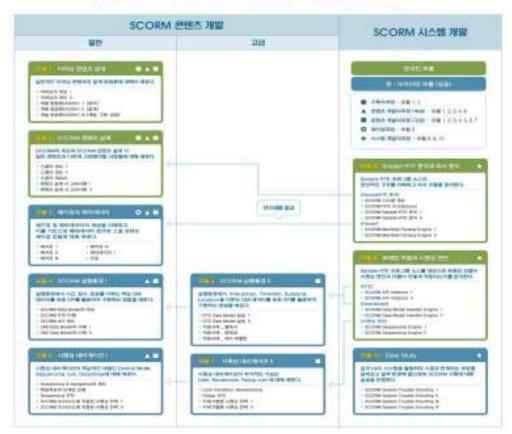
SCORM SCHOOL

Running SCORM specialized courses from 2007

SCORM Fundamentals and 11 on- and off-line modules for further study

Year	Amount of Learners
2007	155
2008	244
2009 (current)	256

SCORM SCHOOL ROADMAP





SCORM Certification

Operation

- Training & Guideline development: 2006
- Pilot project : 2007
- Certification by NIPA: 2008

Place/Equipment

- Placed in Korea ADL Partnership-Lab
- Required equipment was set up

Certified Products

- conducted 11 certification tests in 2008
 - 8 contents and 3 LMSs
- 3 tests in 2009(current)
 - 2 contents and 1 LMS



R&D

- A Study on the SCORM Integrated Standard Model for Implementation of Simulation
- A Study on the Basic Materials for Localization of the SCORM Specification
- A Study on Trends Analysis and Promotion Strategies Development
- Developed standardization draft on e-Learning metadata registry
- Researched e-Learning systems solution QA guide
- A Study on SCORM API Performance Evaluation on Various RIA Environments
- ISO/IEC DTR 29163 -1,-2,-3&-4 "SCORM 2004 3third edition" Conformity
- Researched Tracking Data Model through studying competency-based LMS
- SCORM Sequencing Best Practices and Guidelines in Korea



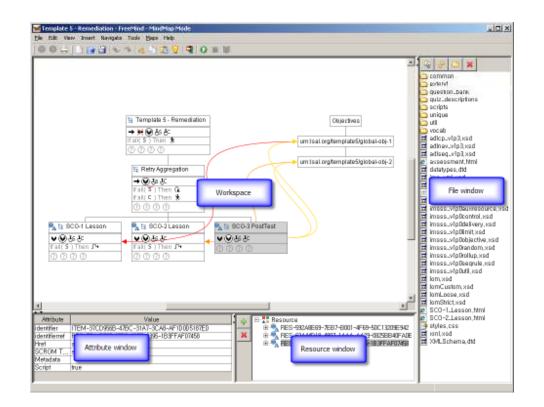
R&D

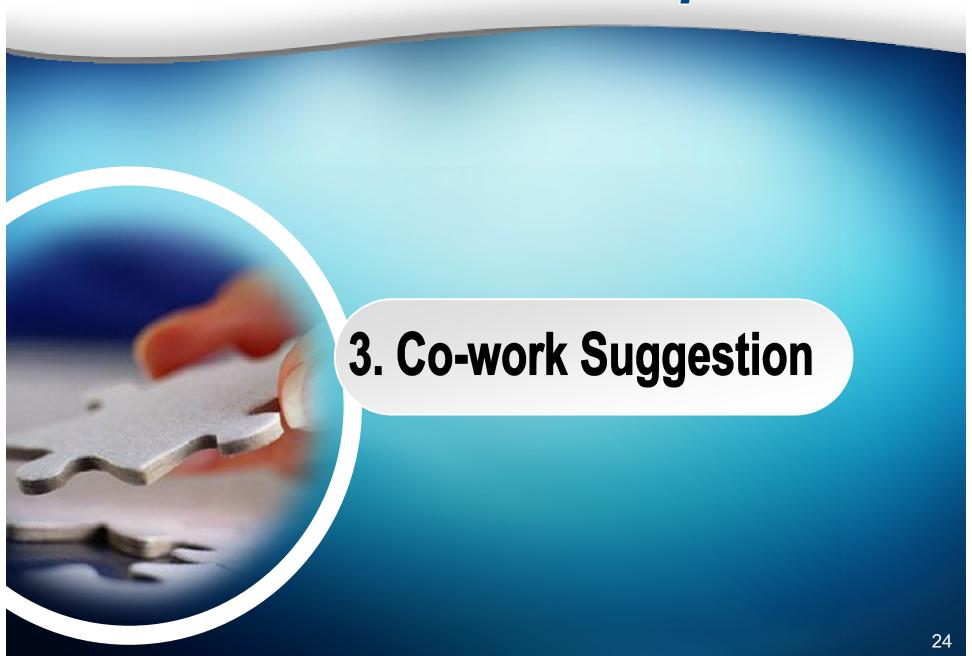
CourseBuilder 2004: Development of Visualized SCORM Packaging & Simulation Tool

Development of a tool which can edit, produce, deploy and test SCORM 2004 contents conveniently and visually

Increase contents productivity by integrating visualization and simulation functions

Enhance understanding on sequencing & navigation and CMI data model







Some Possibilities

1. CORDRA

- Game and Simulation
- ITS and PA
- Mobile Learning
- SCORM
- Others



Some Possibilities

1. CORDRA

- ADL-R implementation in Korea
- Huge Content Repository
- Data Mining and Federation technologies



- 2. Game and Simulation
- Game interface development
- Authoring tools for developing SCORM-based game content
- Simulation interface standard



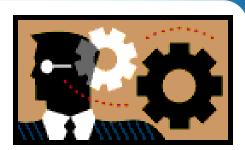
- 3. ITS and PA
- Distributed ITS development
- Wearable learning technology
- Application of 'Second Life' technology



- 4. Mobile Learning
- m-LMS development
- Content development for m-Learning
- Adaptation of SCORM to m-Learning ('m-SCORM')



- 5. SCORM
- What?
- Why?
- How?





Some Challenges about SCORM in Korea

- 2009 SCORM Workshop

[Nov. 26, 2009, Seoul Korea]

- Users
- Providers
- NIPA (SCORM diffusion)
- Advantages and disadvantages
- "too heavy" specification
- Interoperability but not reuse
- → "light" SCORM



SCORM 2004 Application to virtual environment

- Implement SCORM-like CMI data interface, which will leave SCORM data on Moodle using SLoodle-like technology
- Provide open API for any different LMS system to communicate with the data generated from Open Sim.
- Develop scenario based Open Sim content, and provide it as open contents to public

Devil Island Mystery















Further Work(Course Builder 2004)

- Enhance icon and combinational representation
 - Icons needs to be improved to be more simple and meaningful
 - Combinational expressions are not clearly implemented. "and" and "or" expressions needs to be impressed in well organized manner
- Adopt SCORM 2004 4th Edition changes
 - Rollup of weighted completion data
 - Jump navigation request
 - Shared data between SCOs
 - More objective data available globally
- International collaboration for improvement
 - Cooperative program development, usability test, or product feedback reflection
 - Sourceforge registration and distribution
 - Guideline, tutorial, or best practice development for SCORM 2004 with CourseBuilder 2004.

Thank You ~!

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